

Received by Chief Engineer Surveyor.....

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SSEL'S NAME "JOAO ALVARES FAGUNDES" REPORT Lis. No. 4070

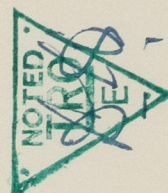
Remarks of the Chief Engineer Surveyor are desired on this case for the consideration of the Classing Committee.

("The endorsement to contain a succinct summary of any repairs that have been required and to show the cause or causes of such repairs, and also to bring out clearly any exceptional features in connection with the case, so that the Classing Committee may have all the salient points presented in the endorsement."—Extract from Sub-Committee's Report, 24/5/92.)

Type of Engine Oil engines 4 S.C.S.A.

8 Cy. $13\frac{3}{4}$ " - 21"

M.N. 147.



~~If Boilers fitted with forced draught~~

Tail Shaft. If fitted with a continuous liner No

If fitted with an outside gland of }
approved type Yes

The torsional vibration characteristics of the main engines have been examined and it is considered that a notice board should be fitted at the control station stating that the engines of the vessel should not be used continuously between 145 and 180 revs. per minute. (See endorsement 4.7.44.)

This vessel's machinery appears to have been built in accordance with the Rules and the approved plans, and it is submitted she is eligible to be classed ~~ELMC~~ 7.45
DB 105 lb.

It is further submitted the machinery certificate be endorsed as follows:-

The main engines should not be used continuously over the speed range between 145 and 180 revs. per minute.

This statement should also be inserted in the S.R.L. (*in italics*).

The auxiliary machinery consists of 2 auxiliary engines each driving a 25 KW dynamo and each engine is quite adequate to supply the whole of the current required for all essential services at sea.

The calculations for torsional stresses in the shafting of these engines have not been submitted for consideration.

In view of the above it is submitted these engines be accepted and the Owners advised.

Upon opening up the main engine after trials No. 8 piston crown found cracked in way of lifting hole. This piston has now been renewed and the class is not affected.

The requirements for the notation "Strengthened for navigation in ice" have been complied with.

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Lloyd's Register
Foundation

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